United States Gyps [,]	Company	
P.O. Box 570160		
Sigurd, UT 84657		*
435 896-2400		
Fax: 435 896-2407		

Task 10# 1785

April 9, 2007

Susan White Mining Program Coordinator Minerals Regulatory Program Division of Oil, Gas and Mining 1594 West North Temple, Suite 1210 Salt Lake City, UT 84114-5801



Dear Ms. White,

This memo is to notify you that USG has completed a basic in-house cost estimate for reclamation of the Jumbo-Jensen Quarry. The cost analysis is attached herewith, and is intended to reflect disturbances in the five (5) maps sent to you last month from Joe Crawford (USG Geological Services, Chicago Headquarters). The total current plus 5-year planned disturbance is 362 acres and will involve re-excavating/recontouring about 960,000 cu yds of waste rock and soil which will be revegetated. Disturbed areas include quarries, borrow pits, and haulage roads.

The cost estimate is patterned after a federal contract and includes current figures for equipment utilization, recontouring, site monitoring, insurance, revegetation, razing of buildings, and labor. The razing cost is related to removal of a powder magazine and a water tank. From this exercise, we estimate that the total reclamation cost for existing disturbances and disturbances incurred over the next five years is \$3.5 million. This cost assumes that no reclamation is done going forward during the next five years, and that the work is conducted by an outside contractor. This does not mean that USG will discontinue reclamation efforts.

Please advise if you require additional information.

Sincerely,

Josh Reese

USG Project Engineer

Cc: Bruce Allen Clint Hattaway ARR 1 6 2007

DRW OF CALL GAS & MINING

United States Gypsum Company, Sigurd Utah **Reclamation Cost Calculations** Jumbo-Jensen Quarry M041008 Sevier County, Utah

Revised - April 2007

Sources of Data

Scott Machinery- Salt Lake City, Utah (3/13/07)	\$/Hour	Fuel (gal/hr)	7.	al \$/Hour
Monthly rental rates are based upon 176 operating hours		ruei (gai/nr)	100	al \$/nour
Estimated diesel fuel cost per gallon	\$2.29			
John Deere 1050C bulldozer = \$14,000	\$ 79.55	16.0	\$	115.55
John Deere 770D grader = \$5,900	\$ 33.52	6.0	\$	47.02
John Deere 270D hydraulic excavator = \$7,000	\$ 39.77	7.0	\$	55.52
Mobilization for all equipment= \$3,500				

Equipment Center- Richfield, Utah (3/13/07)	/Hour
120 hp tractor - \$0.20 per HP/HR-\$23/HR	\$ 23.00
105 HRS Minimum/Month	
Fuel usage - 5 gallons/hour @ \$2.29/gallon	\$ 11.45
Subtotal \$/hour for tractor	\$ 34.45
Ripper	\$ 35.00
Disk	\$ 35.00
Fertilizer Spreader	\$ 35.00
Power Mulcher	\$ 25.00
Ring Roller	\$ 35.00
Broadcast Seeder	\$ 35.00

	Re-seeding	是一个一个人的 医二次 医多类性	\$/Acre
Miscellaneos Seed		\$	240.00

U. S. Dept. of Labor, Davis-Bacon Wage Rates*		Wage	STATE OF THE PARTY	Fringe	Total	
Dozer Operator	\$	22.28	\$	9.76	\$ 32.04	
General Laborer	S	13.25	\$	2.79	\$ 16.04	

(A) Earthwork, Recontouring, Ripping or Scarifying

(1) Roads

Till, boulder clay/hardpan, Medium Hard, Grader Rear Ripper - 180 HP, ideal condition

Roads will be ripped to a depth of 1 foot Total area = 47.8 acres

Total area – 47.6 acres							_		1	
R. S. Means Heavy Equipment Construction Cost Data 2006	Ba	re Equipment Cost		Bare Labor Cost	Overhead and Profit	Adjustment for Area Code 84657	Т	otal Cost Per Cu. Yd.		
Grader Ripper (John Deere 770D),180 HP (2315-418-2835)			\$	0.69	10%	99.6%	\$	0.76		
Grader Ripper (John Deere 770D),180 HP (2315-418-2835)	\$	0.72			10%	99.6%	\$	0.79		
Hydraulic Excavator (John Deere 270D) (2315-424-0260)			\$	0.50	10%	99.6%	\$	0.55		
Hydraulic Excavator (John Deere 270D) (2315-424-0260)	\$	0.88			10%	99.6%	\$	0.96	E Mar D O	
Crawler Dozer (John Deere 1050C) (2315-432-5400)		The second	\$	0.86	10%	99.6%	\$	0.94		
Crawler Dozer (John Deere 1050C) (2315-432-5400)	\$	2.55			10%	99.6%	\$	2.79		
Road Reclamation		Length (ft.)		Width (ft.)	Thickness (ft.)	Cubic Yards		Labor Cost	Equipme	nt Cos
Jensen Mine		24,833		40	1	36,790	\$	27,812	\$	29,021
Jumbo Mine		27,257		40	1	40,381	\$	30,526	\$	31,854
Subtotal Roads			Sign			77,170	\$	58,338	\$	60,874
			_						THE RESIDENCE OF THE PERSON NAMED IN	

Total Ripping/Scarifying Roads
*Road lengths approximated from quarry autocad drawings

(2) Waste Rock Piles

Given:

Equivalent to ripping till, boulder clay/hardpan, Medium Hard, Grader Ripper, Hydraulic Excavator, Crawler Dozer, Ideal conditions

Recontouring Waste Pile Surfaces	Cubic Yards	Labor Cost	Equ	ipment Cost
Jumbo and Jensen Mines	960000	\$ 718,714	\$	1,454,957
Total Waste Rock Pile Recontouring			\$	2,173,670

*Cost per cubic yards averaged over 3 pieces of equipment.

(3) Razing Buildings and Equipment

Given:		Data Source: Richardson Engineering Services, Inc. (1998). Inflated by 3% annually from 1998 to 2007														
Group 4 Demolition Crew		1998 Wage/E	quipmen	t Rates		Overhead		Total		Increased 3	3% pe	r year	100	Overhead		Total
Foreman with pickup truck	\$	8.00	\$	29.35	\$	-	\$		\$	10.49	\$	38.49	\$	13	\$	-
Caterpillar 950F Series II wheel loader	\$	41.00	\$	27.95	\$	-	\$		\$	53.76	\$	36.65	\$	34 1 4 3	\$	-
Laborers (3)			\$	64.50	\$		\$	-	\$	-	\$	84.58	\$	100	\$	-
Truck drivers (2) with 10 CY dump trucks	\$	60.00	\$	22.55	\$		\$		\$	78.68	\$	29.57	\$		\$	
Air compressor 150 CFM with air tools and accessories	\$	16.00			\$		\$	-	\$	20.98	\$	-	\$		\$	-
Subtotal Group 4 Per Hour	\$	125.00	\$	144.35	\$		\$		\$	163.91	\$	189.28	\$		\$	-
Allowance for general conditions and overhead (50% of labor)	\$	-	\$	-	\$	72.18	\$		\$	-	\$	-	\$	94.65	\$	
Total Cost Per Hour	\$		\$	-	\$	-	\$	342	\$	-	\$	-	\$	Little Land	\$	448
Percentage of Total Cost	•									37%	20.22	42%	1883	21%	150	100%

Group 4 Crew at \$448 per hour		Steel	Wood		Masonry			concrete
5.3 hours	\$	2,373.55						
5.5 hours			\$	2,463.11				
5.7 hours					\$	2,552.68		
6.8 hours							\$	3,045.30
Dump Fee Allowance @ \$7.21 per Cu. Yd. Allow 74 cu. Yd. per 10,000 cu. Ft. of building volume	\$	533.25	\$	533.25	\$	533.25	\$	533.25
Subtotal Cost	\$	2.906.80	\$	2.996.36	\$	3.085.93	\$	3.578.55
Contractor profit of 10%	\$	290.68	\$	299.64	\$	308.59	\$	357.86
Total, Subcontract	\$	3,197.48	\$	3,296.00	\$	3,394.52	\$	3,936.41
Subcontract Standard Unit Price Per Cubic Foot	\$	0.32	\$	0.33	\$	0.34	\$	0.39

Demolition and Razing Structures	Length	Width	Height	Cubic Feet	To	otal Cost
Water tank (12,000 gallons) - estimated 40 hours	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		1 1 2 1 2		\$	19,705
Cap magazine - steel	8	8	8	512	\$	164
AP Emulsion magazine - steel	8	8	8	512	\$	164
Inactive powder magazine - masonry	20	40	10	8,000	\$	2,716
Total Demolition and Razing of Structures	1.32	1/2	18.1		\$	22,748
Labor Cost Proportion for Insurance Premium (37% of total cost)			100		\$	8,417

(B) MONITORING

1	Given:
1	Quarterly inspection for two growing seasons.
ŀ	Two weeks per quarterly inspection (4 weeks/year)
1	Field engineer's salary at \$1050 per week.
1	Project manager's salary at \$1 720 per week

Field Personnel Costs From R. S. Means Heavy Construction Cost Data for 2006	Bare Equipment Cost	Bare Labor Cost	Overhead and Profit	Adjustment for Area Code 84657	Total Cost
Field engineer, average (01310-700-0120)	NA	\$ 1,050	10%	99.6%	\$ 1,150
Project manager, average (01310-700-0200)	NA	\$ 1,720	10%	99.6%	\$ 1,884

Project Supervision and Revegetation Monitoring	Weeks	W	eekly Salary	Total Cost		
Revegetation Monitoring						
Quarterly inspection - field engineer, three years	6	\$	1,150	\$	6,902	
Reclamation Project Supervision						
Project supervision - 24 months to complete project	104	\$	1,884	\$	195,981	
Total Project Monitoring and Revegetation Monitoring Labor Cost				\$	202,883	

(C.) REVEGETATION AND STABILIZATION

Table 1.-Estimated Revegetation Cost for Waste Rock Piles and Stockpiles (April 2007)

Equipment	Cost/Day Cost/Hour Tot		Total Cost/Hour	Acres/Hour	Acres	Hours	Cost	Cost/Acr		
200 HP Dozer		\$	115.55			311		\$ -	\$	
Ripper		\$	35.00	\$ 150.55	1.0	311	311.00	\$ 51,502	\$	165.60
Disk		\$	35.00	\$ 150.55	1.5	311	466.50	\$ 77,252	\$	248.40
Fertilizer Spreader	10	\$	35.00	\$ 150.55	2.0	311	622.00	\$ 103,003	\$	331.20
Broadcast Seeder		\$	35.00	\$ 150.55	1.5	311	466.50	\$ 77,252	\$	248.40
Power Mulcher		\$	25.00	\$ 140.55	1.0	311	311.00	\$ 48,081	\$	154.60
Crimper		\$	35.00	\$ 150.55	2.0	311	622.00	\$ 103,003	\$	331.20
Total Cost For Equipment (includes 10% profit)				Control of the state of	100	n 10 B 2 6 16	\$ 460,093	\$	1,479

Wages		Wage/Hour		Benefits/Hour		Sum	Hours	Efficiency Adjustment	Adjusted Hours	44	Total Wage
Bulldozer Operator (Davis Bacon Group 8 , Area 2)					1.0	3.7	100			PA	19
Ripper	\$	22.28	\$	9.76	\$	32.04	311.00	0.2	373.2	\$	13,153
Disk	\$	22.28	\$	9.76	\$	32.04	466.50	0.2	559.8	\$	19,730
Fertilizer Spreader	\$	22.28	\$	9.76	\$	32.04	622.00	0.2	746.4	\$	26,306
Broadcast Seeder	\$	22.28	\$	9.76	\$	32.04	466.50	0.2	559.8	\$	19,730
Power Mulcher	\$	22.28	\$	9.76	\$	32.04	311.00	0.2	373.2	\$	13,153
Crimper	\$	22.28	\$	9.76	\$	32.04	622.00	0.2	746.4	\$	26,306
Laborer (Davis Bacon Group 1, Area 2)							116 /			- 000	
Mulching	S	13.25	\$	2.79	\$	16.04	311	0.1	342.1	\$	6,036
Total Cost For Wages (included 10% profit)			_		-		I was the same		THE THE STATE OF	\$	124,414
Total Cost for Equipment and Wages (includes 10% profit)						114	3 7 1 3 20		- PA 19	\$	584,506.96

Seed, Fertilizer, & Mulch	Cost/Acre	Total Cost		
Seeds	\$ 240.00	\$ 74,640.00		
Fertilizer + Mulch	\$195.00	\$60,645.00		
Total		\$135,285.00		

Table 2. - Estimated Revegetation Costs for Roads, Exploration Areas, and Building Lots (April 2007)

Equipment	Cost/Day		Cost/Hour	Total Cost/Hour	Acres/Hour	Acres	Hours		Cost	Co	ost/Acre
120 HP Tractor		\$	23.00			52.8	200	11111			
Ripper		\$	35.00	\$ 58.00	1.5	52.8	79.2	\$	5,053	\$	95.70
Disk		S	35.00	\$ 58.00	2.5	52.8	132.0	\$	8,422	\$	159.50
Fertilizer Spreader		\$	35.00	\$ 58.00	4.0	52.8	211.2	\$	13,475	\$	255.20
Broadcast Seeder		\$	35.00	\$ 58.00	2.5	52.8	132.0	\$	8,422	\$	159.50
Power Mulcher	-	\$	25.00	\$ 48.00	1.0	52.8	52.8	\$	2,788	\$	52.80
Crimper		\$	35.00	\$ 58.00	2.0	52.8	105.6	\$	6,737	\$	127.60
Total Cost For Equipment (includes 10% profit)								\$	44,896	\$	850

Wages		Wage/Hour		Benefits/Hour	Sum	Hours	Efficiency Adjustment	Adjusted Hours	То	tal Wage
120 HP Tractor	1186		1911						11.00	TEN A
Ripper	\$	22.28	\$	9.76	\$ 32.04	79.2	0.2	95.04	\$	3,350
Disk	\$	22.28	\$	9.76	\$ 32.04	132.0	0.2	158.4	\$	5,583
Fertilizer Spreader	\$	22.28	\$	9.76	\$ 32.04	211.2	0.2	253.44	\$	8,932
Broadcast Seeder	\$	22.28	\$	9.76	\$ 32.04	132.0	0.2	158.4	\$	5,583
Power Mulcher	\$	22.28		9.76	\$ 32.04	52.8	0.2	63.36	\$	2,233
Crimper	\$	22.28		9.76	\$ 32.04	105.6	0.2	126.72	\$	4,466
Laborer	12- 6						The second second	1 28 2	\$	P
Mulching	\$	13.25	\$	2.79	\$ 16.04	79.2	0.1	87.12	\$	1,537
Total Cost For Wages (includes 10% profit)							-75	The state of the s	\$	31,683
Total Cost for Equipment and Wages (includes 10% profit)									S	76,579

Seeds, Fertilizer, and Mulch	Cost/Acre	Total Cost
Seeds	\$ 240.00	\$ 12,672
Fertilizer + Mulch	\$195.00	\$10,296.00
Total		\$22,968.00

Table 3. Summary of Revegetation Costs (April 2007)

Component of Revegetation	Waste Rock Piles			Roads	Subsys	Total
Equipment	\$	460,093	\$	44,896	\$	504,989
Wages	\$	124,414	\$	31,683	\$	156,097
					\$	-
Seeding, Fertilizer, and Mulch	\$	135,285	\$	22,968	\$	158,253
					\$	-
Total	\$	719,792	\$	99,547	\$	819,339
10% Administrative Fee	\$	71,979	\$	9,955	\$	81,934
Total Cost For Revegetation	\$	791,771	\$	109,502	\$	901,273
Acres		311		52.8	100	
Total Cost Per Acre For Revegetation	\$	2,546	\$	2,074	1	

(D) Recapitulation of Total Reclamation Costs

Earthwork and Recontouring		Labor	S. E.	Equipment	Materials	
1. Roads	\$	58,338	\$	60,874	\$	-
2. Pits/adits/trenches	\$	-	\$		\$	-
3. Process Ponds	\$	-	\$	-	\$	-
4. Heaps	\$		\$		\$	-
5. Dumps	\$	718,714	\$	1,454,957	\$	-
6. Tailings	\$		\$	-	\$	
7. Buildings and equipment	\$	8,417	\$	14,331	\$	-
8. Drainage Control Plan	\$		\$	-	\$	
9. Miscellaneous	\$		\$		\$	-
Subtotal Earthwork and Stabilization	S	785,468	\$	1,530,162	\$	

Revegetation and Stabilization		Labor	E SIE	Equipment	Materials	
Mobilization	1 1 1 1 1 1 1		\$	4,320		
Monitoring (post reclamation)	\$	202,883	\$	99.	\$	
Monitoring and Mobilization Total	\$	202,883	\$	4,320	\$	
Revegetation and Stabilization	\$	156,097	\$	504,989	\$	158,253
Total Earthwork and Revegetation	\$	1,144,449	\$	2,039,472	\$	158,253

(E) Insurance (15% of total labor cost)

Area		arthwork	Re	evegetation
Roads	\$	58,338	\$	31,683
Waste Piles	\$	718,714	\$	124,414
Demolition/Razing	\$	8,417	\$	
Monitoring	\$	202,883	\$	
Subtotal Labor	\$	988,352	\$	156,097
Grand Total Labor		Hilly	\$	1,144,449
Insurance (15%) of to	tal labor cos	t	S	171.667

(F) Totals

Total Reclamation Costs + Add-ons		Labor	E I	Equipment	Materials	
Total Earthwork and Revegetation	\$	1,144,449	\$	2,039,472	\$	158,253
Insurance (15% of total labor)	\$	171,667	\$		\$	12.1
Total	\$	1,316,116	\$	2,039,472	\$	158,253
Grand Total			\$	3,513,840.58		

Revegetation Plan Developed by TRC Mariah and Associates, Laramie, WY (October 1993) "Revised Revegetation Plan for the U. S. Gypsum Company Sigurd, UT Gypsum Quarry Area"